

## INTERNATIONAL SEARCH REPORT

PCT/EP 03/06381

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H03H H04B G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	T.A. CHMIELEWSKI ET AL.: "On the identification of stochastic biases in linear time invariant systems" PROCEEDINGS OF THE AMERICAN CONTROL CONFERENCE, June 1996 (1996-06), pages 4067-4071, XP002254886 Seattle, Washington, USA paragraph '000I! - paragraph '00II! ---	1-26
Y	EP 1 102 398 A (NOKIA MOBILE PHONES LTD) 23 May 2001 (2001-05-23) cited in the application paragraph '0011! - paragraph '0012! paragraph '0017! - paragraph '0025! --- -/--	1-26

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \* & \* document member of the same patent family

Date of the actual completion of the international search

18 September 2003

Date of mailing of the international search report

01/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Augarde, E

## INTERNATIONAL SEARCH REPORT

PCT/EP 03/06381

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ALOUANI A T ET AL: "A two-stage Kalman estimator for state estimation in the presence of random bias and for tracking maneuvering targets"            PROCEEDINGS OF THE CONFERENCE ON DECISION AND CONTROL. BRIGHTON, DEC. 11 - 13, 1991, NEW YORK, IEEE, US,            vol. 1 CONF. 30,            11 December 1991 (1991-12-11), pages 2059-2062, XP010055754            ISBN: 0-7803-0450-0            page 2059, right-hand column, line 13            -page 2060, left-hand column, line 18            paragraph '0001!.</p>	1,8,9, 17,18,24
A	<p>---            A. KELLY: "A 3D state space formulation of a navigation Kalman filter for autonomous vehicles"            CMU TECHNICAL REPORT,            2 May 1994 (1994-05-02), pages 1-82, XP002254887            Pittsburgh, PA, USA            document available under  <a href="http://www.frc.ri.cmu.edu/{alonzo/pubs/pubs.html">http://www.frc.ri.cmu.edu/{alonzo/pubs/pubs.html</a>            page 23, paragraph 5.1            page 59, paragraph 15.1 - paragraph 15.2</p>	1-5,8-13
A	<p>---            WO 88 01409 A (GRUMMAN AEROSPACE CORP)            25 February 1988 (1988-02-25)            page 13, line 20 -page 14, line 11</p>	1,8,9, 17,18,24
A	<p>---            US 2002/132626 A1 (TSUNEHARA KATSUHIKO ET AL) 19 September 2002 (2002-09-19)            figures 1-3</p>	8,17,24
	<p>-----</p>	

## INTERNATIONAL SEARCH REPORT

PCT/EP 03/06381

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1102398	A	23-05-2001	US	6618690 B1	09-09-2003
			EP	1102398 A2	23-05-2001
			JP	2001183439 A	06-07-2001
WO 8801409	A	25-02-1988	EP	0277231 A1	10-08-1988
			JP	1500714 T	09-03-1989
			WO	8801409 A1	25-02-1988
US 2002132626	A1	19-09-2002	JP	2002281540 A	27-09-2002
			CN	1375999 A	23-10-2002